FEMP Monthly Update

FEDERAL ENERGY MANAGEMENT PROGRAM

APRIL 2004

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The ***FEMP MONTHLY UPDATE*** is prepared expressly for the Department of Energy's Office of Federal Energy Management Programs (FEMP). The purpose of the ***UPDATE*** is to provide FEMP management staff with timely information on topics relevant to the program. This includes the status of pending Federal and state legislation and summaries of public and private sector energy-related activities. The ***FEMP MONTHLY UPDATE*** is prepared for FEMP by Energetics, Incorporated, (202) 479-2748.

DOE BULLETIN BOARD

Short-Term Energy Outlook, Energy Information Administration (EIA), April 2004

This month's *Short-Term Energy Outlook* reports motor gasoline prices are likely to remain high and volatile for the summer season. High crude oil costs, strong gasoline demand, low gasoline inventories, and more stringent gasoline specifications have increased motor gasoline prices before the peak driving season. The domestic gasoline supply is vulnerable to price peaks is any major refinery or pipeline outages occur. However, price increase could be buffered by an increased decline in crude oil prices and an increase in available natural gas.

West Texas Intermediate (WTI) prices are about $36.70 per barrel which is an increase of $5.60 per barrel since November. OPEC-10, OPEC except Iraq, exceeded the April 1 OPEC production quotas by an estimated 2.4 million barrels per day. Annual production for OPEC, including Iraq, is expected to remain constant, while non-OPEC oil is projected to increase by 1.4 million barrels per day in 2004. Natural gas demand is expected to increase by 2.4 percent in response to the increase in fuel oil prices, weather factors and economic growth.

Electricity demand is anticipated to grow by 1.9 percent in 2004. Coal demand will mirror this growth, with coal prices to the electric power sector projected to increase up to four percent by the end of 2004. The increased demand for coal is closely correlated with high fuel oil and natural gas prices.

EIA has released their comprehensive annual *Summer 2004 Motor Gasoline Outlook*. This report documents the anticipated motor gasoline trends of the summer driving season. Tight gasoline markets, an average gasoline price of $1.76 per gallon, and an anticipated increase in gasoline demand are highlighted. View the report at www.eia.doe.gov/emeu/steo/pub/special/SummOut/2004/Summogas2004.pdf

CONGRESSIONAL ACTIVITIES

CONGRESSIONAL SCHEDULE

Refer to Appendix A for the Congressional Calendar of Events.

STATUS OF PENDING AUTHORIZATION BILLS OF INTEREST TO FEMP

Comprehensive Energy Legislation Timing and the strategy for consideration of comprehensive energy legislation on the Senate floor continues to remain a very fluid issue. The $13 billion energy tax incentive package is still expected to be attached to *S. 1637 - Foreign Sales Corporation/Exterritorial Income*, which is considered a "must pass" bill this year as it deals with foreign tariffs on domestically produced products. To encourage action on energy legislation, Senate Minority Leader Tom Daschle (D/SD) attached an ethanol amendment to a pending Internet tax bill on April 27. Following Senator Daschle's action, Committee on Energy and Natural Resources Chair, Pete Domenici (R/NM) introduced his new energy bill, *S. 2095,* as a "second degree amendment" to the ethanol amendment. Senate floor action on *S. 1637* is expected to occur sometime next week.

Meanwhile, last week Chairman Domenici and Chairman Joe Barton (R/TX) of the House Committee on Energy and Commerce issued a joint statement following a meeting to develop a strategy to pass comprehensive energy legislation this year. Their statement includes the following:

Today's meeting marks our first as the energy committee chairmen for our respective houses, and it was both cordial and productive. We established a dialogue and laid the foundation for a successful relationship.

Today's topic was the energy bill, and neither of us is willing to abandon the work that has gone into generating a comprehensive package. We have directed House and Senate staff experts to continue discussions, but with new vigor. We intend to roll up our sleeves and try to find common ground on which a package of legislation can be built and presented. We both recognize that any successful policy agreement

WHAT'S NEW ON THE FEMP WEBSITE

The Laboratories for the 21st Century website has moved to www.labs21century.gov. Continue to visit for updates on the Labs21 2004 Annual Conference, upcoming workshops, and general Labs21 information.

A summary of EERE's budget for FY 2005 is available on www.eere.energy.gov/office_eere/budget.html

DID YOU KNOW?

Assistant Secretary David Garman is now also serving as the Acting Under Secretary for the Department of Energy.

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must attract broad bipartisan support in both houses of Congress, and that is our goal.

Today's meeting was the first, but not the last, and we will continue getting together regularly on this and other issues.

Other Legislative Initiatives of Interest
Refer to www.eere.energy.gov/femp/newsevents/congress_initiatives.cfm. Legislative Databases for the status of pending energy-related legislation.

FY 2005 BUDGET RESOLUTION

Conference Committee Negotiations The House – Senate FY 2005 Budget Resolution Conference Committee continues as members try to resolve the controversial "pay go" issue among other provisions. They hope to have a resolution for House and Senate floor votes by the end of the week. Members met last week and plan to resume negotiations this week to resolve differences between the House (*H. Con. Res. 393*) and Senate (*S. 95*) resolutions. *S. 95* contains a pay go provision requiring that any tax cuts or new spending be offset by additional revenues or reductions in other programs; the House bill contains no such provision. The non-binding annual budget resolution provides the framework for establishing House and Senate spending levels for the annual appropriations process. *H. Con. Res. 393* established a discretionary spending cap of $821 billion and *S. 95* exceeds the House level by $3 billion. Until an agreement is reached, appropriators are unlikely to begin marking up the 13 annual appropriation bills.

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FEDERAL AGENCY ACTIVITIES

DEPARTMENT OF DEFENSE (DOD)

No news of interest to report.

DEPARTMENT OF ENERGY (DOE)

New Energy Efficiency and Renewable Energy Position Last week, the Department revealed plans to create a new position to focus on deployment of energy efficiency and renewable energy technologies. The selected individual is expected to hold the title of (or similar to) Director of Regional Office and Deployment Operations. David Garman, DOE's Assistant Secretary for Energy Efficiency and Renewable Energy (EERE) and Acting Under Secretary said, "It is my hope that this position will help us do a better job of integrating the work of headquarters and the field to achieve our deployment goals… this should not be regarded as a policy shift away from R&D toward more deployment. Rather, our goal is to help make EERE's already substantial deployment efforts more effective than they currently are."

DOE Secretary Spencer Abraham Comments on U.S. – Canada Power System Outage Task Force Final Report The report culled information and analysis from public workshops, several Federal working groups, public forums, and technical workshops to identify the causes of the blackout and to make recommendations to prevent future outages. An initial report released in November 2003, by the task force revealed that the blackout was caused by four main problems: inadequate system understanding, inadequate situational awareness, inadequate tree trimming, and inadequate reliability coordinator diagnostic support. In releasing the April 5 final report, Secretary Abraham said the following:

> Today, the U.S.-Canada Power System Outage Task Force issued its final report to the President of the United States and the Prime Minister of Canada, who formed the Task Force and commissioned its investigation of the August 14, 2003, power blackout that affected large parts of the United States and Canada.
>
> This Final Report is the product of months of investigation and analysis by technical experts to determine what went wrong on August 14 and how to strengthen North America's electric transmission system to minimize the likelihood and magnitude of future blackouts.
>
> The report makes clear that this blackout could have been prevented and that immediate actions must be taken in both the United States and Canada to ensure that our electric system is more reliable. First and foremost, compliance with reliability rules must be made mandatory with substantial penalties for non-compliance. In addition, a number of technical and organizational improvements are urgently needed to assure efficient and well-coordinated operations across the North American power grid.
>
> Failure to implement the Final Report's recommendations could threaten the reliability of the electricity supply that is critical to the economic, energy and national security of our countries. It is vital that the U.S. Congress pass comprehensive energy legislation that includes mandatory reliability standards.
>
> The work of the Task Force has been an outstanding example of close and effective cooperation between the U.S. and Canadian governments. Such work will continue as we strive to help assure better electric service for the people of both our nations.

The final report includes the following recommendations:

- Implementation of mandatory and enforceable electricity reliability standards in both the United States and Canada, with penalties for noncompliance, backed by appropriate government oversight
- Strengthening the institutional framework of the North American Electric Reliability Council (NERC) and its initiatives on compliance
- Developing a funding mechanism approved by regulators for NERC and the regional reliability councils, in order to ensure their independence from the parties they oversee
- Addressing deficiencies identified in FirstEnergy and some reliability organizations in the United States, by June 30, 2004
- Strengthening the technical recommendations made by NERC on February 10, 2004
- Improving near-term and long-term training and certification requirements for operators, reliability coordinators and operator support staff
- Increasing the physical and cyber security of the network.

The task force's authority has been extended for another year to carry out the report's recommendations. To view the final report, visit reports.energy.gov.

Comments from Congressional leaders made a direct connection with the need for comprehensive energy legislation. Joe Barton (R/TX), Chairman of the House Committee on Energy and Commerce issued the following statement.

> Today's report confirms the need for a comprehensive energy policy, and specifically the importance of enacting mandatory reliability standards – which the House has twice passed. I hope the task force will encourage Senate leaders to pass the energy bill currently before them.
>
> Meanwhile, the Federal Energy Regulatory Commission reports that it is roughly half done with the 20 power-grid reliability audits that it needs to conduct before summer. That's a job that FERC needs to finish, and the sooner, the better.

Pete Domenici (R/NM), Chair of the Senate Committee on Energy and Natural Resources released the following statement on April 5.

> The report clearly says this blackout could have been avoided. The task force makes several recommendations, particularly the implementation of mandatory reliability standards. The task force also calls for clear guidelines for transmission investment, increased use of advanced technologies and better personnel training.
>
> …This blackout was the largest blackout in U.S. history. It left 50 million people without electricity and cost our economy as more than $5 billion. This must never happen again. The first step to prevent a future blackout is passing the energy bill.

Senator Jeff Bingaman (D/NM), Ranking Minority Member of the Committee on Energy and Natural Resources issued the following statement, which reads in part:

> This Task Force urges Congress to pass legislation that creates mandatory and enforceable electricity reliability standards – legislation that is backed by appropriate government oversight and which includes penalties for failure to comply with those rules. That is why I gladly joined by colleague, Sen. Cantwell, in placing a bill on the Senate Calendar (*S. 2236*) last week that does precisely that.
>
> …This latest task force report makes clear, once again, that its time for Congress to pass reliability legislation. I hope that the Majority Leader will seek consent to pass *S. 2236* at the earliest opportunity possible.

New Air Conditioner Efficiency Standard DOE has announced plans to enforce a seasonal energy efficiency rating (SEER) for residential central air conditioners in response to a U.S. Court of Appeals ruling against the agency's promulgation of a 12 SEER standard in 2002. The new standard will increase efficiency by 30 percent for models sold after January 2006. Assistant Secretary for Energy Efficiency and Renewable Energy and Acting Under Secretary David Garman said, "DOE will enforce the 13 SEER standard. In the interest of giving consumers and industry the regulatory certainty they need, it is time for the government and for private parties to stop litigating, and start working towards complying with the 13 SEER standard."

DOE NATIONAL LABORATORY ACTIVITIES

No news of interest to report.

ENVIRONMENTAL PROTECTION AGENCY (EPA)

Renewable Power Purchases for EPA Facilities in Georgia A three-year contract with the Defense Energy Support Center and 3 Phases Energy Services, will provide an EPA Office Building in Atlanta,

Georgia, and EPA Science and Ecosystem Support Division Laboratory in Athens, Georgia, with 11.2 million kWh of electricity generated from landfill gas facilities. The purchase brings the total EPA procurement of renewables generated power to 122.5 million kWh per year.

Refrigerated Beverage Vending Machines Earn ENERGYSTAR® Rating New vending machine models that are 35 percent more energy efficient than standard machines may now earn the ENERGY STAR® label. Models that have at least 35 percent efficiency could save up to $90 per year per machine in electricity costs annually. In a press release dated April 1, the EPA stated:

> If all vending machines installed by 2012 have earned the ENERGY STAR® building and business owners could save $100 million dollars per year and prevent greenhouse gas emissions equivalent to taking more than 200,000 cars off the road.

EPA and the vending machine industry are developing a program to retrofit older machines to bring them to the 35 percent efficiency standard by the end of 2004. To view models that already qualify for the ENERGY STAR® label, visit www.energystar.gov/products.

EPA Holds Water Efficiency Public Meeting EPA conducted the fourth in a series of public meetings to encourage the adoption of water-saving technologies. The two-day meeting was held in Seattle, Washington, on April 13 and 14. The focus of this meeting was to address market enhancement opportunities of water-efficient products. Previous meetings have been held in Washington, DC (October 2003); Austin, Texas (January 2005); and Phoenix, Arizona (February 2004). The meetings provide a forum in which Federal, state, and local government officials, equipment manufacturers, utilities, building industry associations, consumer groups, and other interested individuals and organizations can meet to exchange information and ideas to promote water efficiency. For more information on the workshop series, visit the EPA website at www.epa.gov/owm/water-efficiency/products_pro.

FEDERAL ENERGY REGULATORY COMMISSION (FERC)

FERC Response to Final Report of U.S. – Canada Power System Outage Task Force On April 14, FERC responded to recommendations listed in the final report issued on April 5 by the U.S. – Canada Power System Outage Task Force regarding the power outage last summer that affected Midwestern and New England states and Canada. After a review of the report, FERC recommended that the North American Electric Reliability Council (NERC) revise its reliability standards to ensure that they are unambiguous and easily enforced. In addition, FERC supports clear communication between the commission and the states and, in situations where significant utility reliability problems exist, FERC resolved that it may take legal action against utilities on a "case-by-case basis". The press release issued on April 14 included a statement by Chairman Pat Wood who stated, "I made clear after the power failure last year that FERC will do all that it can under the Federal Power Act to ensure a safe and reliable electric power system for this nation. However, I cannot emphasize enough that we need legislative reform that provides a clear federal framework for developing and enforcing mandatory reliability rules… In the interim, we will immediately take the steps we can within our statutory jurisdiction to ensure reliability. The nation's electricity customers deserve nothing less."

Specific actions to be taken immediately, as recommended by FERC, include:

- No new ISO or RTO will be allowed to begin operations until its reliability capabilities are functional
- FERC will consider the reliability implications of its decisions, as appropriate
- FERC will appoint a staff task force to report on potential funding mechanisms for NERC and the regional reliability councils to ensure their independence from the utilities they monitor
- FERC staff will draft a memorandum of understanding (MOU) defining NERC's working relationship with the Commission

In a separate order, FERC directed utilities to submit vegetation management reports by June 17 to FERC, state regulatory commissions, and reliability coordinators. A report on procedures to conduct vegetation management practices is located on the FERC website at www.ferc.gov/cust-protect/moi/uvm-final-report.pdf.

GENERAL SERVICES ADMINISTRATION (GSA)

No news of interest to report.

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION (NASA)

NASA Expands Alternative Fuel and Vehicle (AFV) Use NASA continues to increase the agency's use of clean-burning, alternative transportation fuels. Four E85 pumps were installed throughout NASA facilities in 2003, at Stennis Space Center in Mississippi, Kennedy Space Center in Florida, Glen Research Center in Ohio, and Langley Research Center in Virginia. During fiscal year 2004, NASA plans to install E85 pumps at Johnson Space Center in Texas, Goddard Space Flight Center in Maryland, and White Sands Test Facility in New Mexico. William Gookin, Agency Manager of Transportation Programs for NASA said, "Alternative fuels reduce vehicle emissions and aid in reducing reliance on foreign petroleum." NASA encourages all their agency centers to comply with the AFV provisions of *EPACT* and *Executive Order 13149*. The Stennis Space Center in Mississippi upgraded the facility's fleet to all AFV's and opened a compressed natural gas and an E85 station during FY 2003. Stennis will soon open a bio-diesel station. (Source: National Ethanol Vehicle Coalition, April 13, 2004)

ATLANTA REGION

No new activities of interest to report.

BOSTON REGION

New GSA Renewable Energy Procurement Constellation NewEnergy will supply over 50 MW of power to GSA facilities located in New York City's five boroughs and Westchester County where GSA provides electricity procurement. The facilities include support a number of Federal agencies including the Veterans Administration, Social Security Administration, and the United Nations, among others. Approximately 25 percent of the electricity will be derived from renewable energy sources. Deirdre Lord of Constellation NewEnergy, said, "New York's successful retail access program enables customers like the GSA to buy power in a way that is consistent with their energy goals… For the GSA, buying electricity from renewable sources was an important part of its procurement strategy. This is a great example of how Constellation NewEnergy can leverage its experience and resources to deliver a product that is tailored to our customer's needs. We have been supplying electricity to the GSA for almost three years and are pleased to continue working with them as their energy partner." (Source: *PRNewswire*, April 7, 2004)

CHICAGO REGION

No new activities of interest to report.

DENVER REGION

No new activities of interest to report.

PHILADELPHIA REGION

No new activities of interest to report.

SEATTLE REGION

No new activities of interest to report.

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STATE AND LOCAL GOVERNMENT ACTIVITIES

GENERAL ANNOUNCEMENTS

No news of interest to report.

ATLANTA REGION

No news of interest to report.

BOSTON REGION

- ***General State Activities***

During the past year, Maine Green Power Connection (MeGPC) signed up for over 30 million kWh of "green" electricity from renewable sources for the utility's customers. MeGPC encourages the use of renewables for electric production and pursues renewables education and aggregation activities for Maine residents and businesses. MeGPC expects that more than 50 million kWh of green electricity will be sold this year. Other MeGPC green power objectives include:

- By 2006, assist in the enrollment of approximately two percent of Maine's electricity market in a green, environmentally beneficial electricity product, and
- By 2008, enroll 60,000 customers in some form of green, environmentally preferable electricity.

For more information on MeGPC, visit *www.mainegreenpower.org*.

CHICAGO REGION

- ***General State Activities***

No news of interest to report.

DENVER REGION

- ***General State Activities***

No news of interest to report.

PHILADELPHIA REGION

- ***General State Activities***

The New Jersey Board of Public Utilities (BPU) has approved amendments to the state's Renewable Portfolio Standards (RPS) Rules, which were proposed last October. The new rules increase from two to four percent the requirement for Class I renewable energy. The rules also require each retail electricity provider to include a specific amount of solar electric generation in their energy portfolio. Jeanne Fox of the NJBPU, said, "The RPS is a very cost effective way of supporting the renewable energy market,

especially with the support of a central accounting and verification system that would allow suppliers to use renewable energy certificates (RECs). A REC accounting and tracking system would take the administrative burden off the suppliers and make it easier for the renewable energy generators to sell their environmental attributes separately from the energy. This flexibility is important for the intermittent renewable energy generator. In addition, it provides a market based financing mechanism for renewable energy." Electric suppliers not able to purchase enough renewable energy to meet the requirement can pay an alternative compliance payment of $50 per mWh for renewable energy and $300 per mWh for solar energy. Funds collected through the ACP will help finance the construction of new renewable energy generation facilities. The RPS is authorized under the *Electric Discount and Energy Competition Act.* (Source: *New Jersey Board of Public Utilities website*, March 17, 2004)

SEATTLE REGION

- ***General State Activities***

The San Francisco Public Utilities Commission (SFPUC) and other state and local officials dedicated a 675 kW solar electric system at the Moscone Center, a building owned by the City and County of San Francisco. The 60,000-square foot solar array, installed by PowerLight Corporation, is the largest city-owned solar installation in the U.S. With the addition of new energy efficiency upgrades and building controls, the energy project will save over 5 million kWh per year. Energy upgrades include the replacement of inefficient incandescent, fluorescent and mercury vapor lighting. San Francisco Mayor Gavin Newson said, "It is with great pride that we dedicate this historic Moscone Center solar installation… the Moscone energy project is a clear illustration of how our nation's cities can make great strides to provide clean air for our communities, protect the environment -- and help secure a sustainable energy future for our nation." Project funds were provided through the San Francisco Mayor's Energy Account program. (Source: March 18, 2004)

MULTIPLE REGIONS

During the fall of 2003, the Western Governor's Association (WGA), the California Energy Commission (CEA), and the Western Regional Air Partnership (WRAP) formed a partnership to collect data and monitor the acquisition of renewable power in western states. Named the Western Renewable Energy Generation Information System or WREGIS, the new organization also intends to provide a registration system for Renewable Energy Certificates (RECs). WREGIS participants agreed on four general goals:

- Establish a single institution in the western region of the U.S. to record renewable energy generation information and issue, register, and track RECs to verify compliance with state regulatory and voluntary market programs.
- Develop standard definitions, rules, and operating guidelines for participants in WREGIS.
- Improve the economics for the region's renewable energy resources.
- Support state renewable energy policies as well as regulatory programs.

In December 2003, the organization conducted a "needs" survey or of 216 stakeholders to obtain comments on how WREGIS should be organized and recommended functional attributes; this effort resulted tin the publication of the *Final Needs Assessment Report*. To launch the program, the partnership created two committees in early 2004. The Institutional Committee and the Operational Rules Committee have completed their first task of producing interim reports. The reports provide recommendations for obtaining increased stakeholder review. To review the April 15 *Progress Report to Western Governors,* go to www.westgov.org/wga/publicat.

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UTILITIES AND SUPPLIER ACTIVITIES

GENERAL ANNOUNCEMENTS

- *Restructuring Activities*

The North American Electric Reliability Council (NERC) expressed support for the recently released *U.S - Canada Power System Outage Task Force Final Report*. Michehl Gent of NERC said, "NERC agrees with the task force that the single most important step that the United States Congress can take is to enact the reliability provisions in pending energy bills…We again urge Congress to pass reliability legislation this year." The report included recommendations contained in NERC's February 10 report on their findings regarding the blackout. Mr. Gent said that "NERC is taking significant steps to implement key recommendations approved by its independent board, and additional work to implement those recommendations is under way…We have recently adopted revised compliance templates and new disclosure guidelines, initiated a series of rigorous control area readiness audits, and will soon ballot revisions to NERC operating policies that incorporate the findings of the blackout investigation team." NERC pledged to support the U.S. – Canada Task Force's efforts to prevent future blackouts. (Source: www.nerc.com)

The *U.S. – Canada Power System Outage Task Force Final Report* holds FirstEnergy responsible for failing to shut off customers when electricity supplies were running low last August. The report claims that the utility should have reduced electricity load by 1,500 MW to customers in the Cleveland-Akron area; this action would have kept the problem isolated in Ohio. The report cited FirstEnergy without a plan to shed load in emergencies such as this; if there had been a plan to shed load, the failure could have been acknowledged and prevented up to three minutes before the blackout started. Chuck Jones of FirstEnergy said that the report failed to reveal the problems in long-distance power transmission that have been building over the past several years. He also said, "We take exception to the idea that you should interrupt local customers in favor of long-distance transactions." (Source: *International Herald Tribune,* April 7, 2004 and the *Associated Press*, April 7, 2004)

ATLANTA REGION

- *Restructuring Activities*

Tampa Electric is boosting efforts to market the utility's Renewable Energy Program in order to become "self-sustaining by the end of 2006," according to Howard Bryant, the utility's Manager of Rates and Regulatory Affairs. The utility will pay $16,000 to a private consultant to more effectively market the program and will offer $24,000 more if the utility is able to increase by 5,000 kWh its monthly average of renewable energy sales. To participate in the Renewable Energy Program, customers may add $5 or more each month to help cover the cost of procuring energy derived from renewable sources. The pilot program has cost the utility $193,920 over three years; half of this has been covered by program participants. Tampa Electric has asked the Florida Public Service Commission for $150,000 to continue the pilot program for another three years. The 200 participants currently enrolled in the program will soon begin to receive electricity generated from biomass energy as well. (Source: *Tampa Tribune*, March 30, 2004)

Laurens Electric Cooperative is the first utility in the State of South Carolina to offer electricity derived from renewable sources. The utility's 46,000 customers can now purchase 100 kWh blocks of power produced from renewable energy for $3 per block. Utility spokesman Jim Donahoo said that the funds collected from the program will be devoted to pursuing the development of additional renewable resources and that "none of the revenue will go toward any administrative or marketing costs." Methane gas from the Horry County Landfill is the renewable source that is used to generate the electricity. (Source: *Herald-Journal*, (Spartanburg, SC) March 30, 2004)

BOSTON REGION

- *Public Benefits*

Customers of Narragansett Electric in Rhode Island now have the opportunity to enroll in the utility's new GreenUp program and receive electricity derived from renewable sources. The program was approved by the Rhode Island Public Utilities Commission in February. Janice McClanaghan of the Rhode Island State Energy Office said, "Supporting renewable energy is an effective way to help reduce the impact of electricity generation on the Rhode Island, New England, and global environment…Narragansett Electric's GreenUp program will significantly contribute to the work that we are doing to accelerate the growth of renewable energy resources in our state." The utility's 465,000 customers can purchase green power from Community Energy, Conservation Services Group, People's Power & Light, or Sterling Planet. The program does not require enrollees to switch suppliers. For more information, visit www.narragansett.com/greenupenergy.

CHICAGO REGION

- *Public Benefits*

24,000 customers of municipal utility Cuyahoga Falls Electric in Cuyahoga Falls, Ohio, now have the option to purchase electricity derived from renewable energy. The municipal utility has partnered with Green Mountain Energy Company to become the first member of American Municipal Power-Ohio to offer a renewables option. Participants in the Nature's Energy program will receive electricity generated from small hydro plant and a wind energy facility for an $8 to $10 per month surcharge. For more information, visit www.greenmountain.com.

DENVER REGION

No news of interest to report.

PHILADELPHIA REGION

- *Restructuring Activities*

Dominion Virginia Power has asked the Virginia State Corporation Commission for approval to eliminate a customer charge for switching electric suppliers. The utility believes that the competitive transition charge deters people from participating in a pilot program for retail competition. Since the pilot programs began in February, no competitors have offered lower rates to Dominion Virginia Power's customers. The utility asked the Federal Regulatory Commission for approval to provide backup electricity to competitive suppliers in the pilot program – this would ensure greater electric reliability for customers. The system would remain until PJM Interconnection, a regional transmission operator, takes over the transmission line operation. A group of energy providers interested in selling to the Virginia market are studying the changes proposed by Dominion Virginia Power. The utilities, which include Strategic Energy, Direct Energy, Washington Gas Energy Services, and Constellation New Energy, have expressed support for the elimination of the transition charge for all customers rather than just those participating in the pilot program. (Source: *Richmond Times-Dispatch*, April 7, 2004)

- *Public Benefits*

New Jersey Natural Gas (NJNG) distributed free compact fluorescent light bulbs to families and individuals with limited incomes through the Light for Less program. Each light bulb will save recipients approximately $53 per bulb in energy costs compared to traditional light bulbs. Laurence Downes of NJNG said, "NJNG's Light for Less program is a 'new twist on energy efficiency' for a natural gas provider by promoting savings on electricity…Through our commitment to the environment and the community, we are proud to support our state's efforts to encourage the use of compact fluorescent bulbs

to preserve our natural resources and reduce electricity costs." New Jersey consumers were also provided a Consumer Conservation Handbook that is published by the Ratepayers Consumer Advocate for the State of New Jersey containing tips for saving energy. The handbook is available at www.rpa.state.nj.us.

SEATTLE REGION

- *Restructuring Activities*

Avista Utilities will purchase renewable energy generated from the Stateline Wind Energy Center in a 10-year contract for 35 MW of energy. The contract began on April 7, 2004. Steve Silkworth of Avista said, "The power will be delivered at a price that is competitive with other sources of wholesale market energy…This contract represents a significant step in the integration of wind power into our resource mix. It will help us meet our customers' current and future energy needs through the use of additional renewable resources." Another existing renewables program offered by Avista is the Buck-A-Block program that was developed in 2002. The program allows customers to purchase wind power and environmental attributes associate with renewable energy. (Source: *PRNewswire*, April 7, 2004)

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PRIVATE SECTOR

GENERAL ANNOUNCEMENTS

No news of interest to report.

ATLANTA REGION

No news of interest to report

BOSTON REGION

No news of interest to report

CHICAGO REGION

One-kW photovoltaic (PV) solar arrays will be installed on 20 school grounds in Missouri. The schools will be selected as part of the "Missouri Schools Going Solar" project throughout the state. AmerenUE Electric Services is a partner to the program. Funding for the solar education program is provided by Missouri Schools Going Solar and a matching $2,500 contribution by each school. The installations will occur over three grant cycles. (Source: *SolarAccess.Com News,* April 13, 2004)

The ONYX Seven Mile Creek Landfill gas-to-energy is now operational in Eau Claire, Wisconsin. Dairyland Power Cooperative contracted with ONYX to purchase methane gas collected at the landfill so that Dairyland may generate renewable energy for the residential and business members of its cooperative. Ameresco worked with Dairyland to design, engineer, and build the landfill-to-gas facility. "Now this is progress. We are making the world a cleaner place simply by making the electricity we need in our modern lives with this facility," said William Berg, Dairyland's President and CEO. Dairyland is currently developing a manure digester program at several farms within its service area with an expected finish date in late 2004. (Source: *SolarAccess.Com News,* April 13, 2004)

DENVER REGION

No news of interest to report

PHILADELPHIA REGION

The National Geographic Society's three-building headquarter complex in Washington, D.C. ,is the first facility to earn a Leadership in Energy and Environmental Design for Existing Buildings (LEED-EB); the designation occurred in November 2003. LEED-EB certification was developed for the upgrade and operations of existing buildings to improve their performance and overall impact. The LEED-EB certification was obtained by National Geographic after a three-year, $7 million infrastructure upgrade. Upgrades include chiller, boiler, air-handling system with variable-speed drivers, and installation of energy-efficient lighting and window-film installations. A performance contractor was used to guarantee savings in energy use. National Geographic would like to increase the level of certification on the ENERGY STAR® performance scale. (Source: Facilitynet.com, March 1, 2004)

FuelCell Energy and PPL Energy Plus have installed a 250-kW fuel cell power plant for Ocean County Community College (OCC), a two-year community college in Toms River, New Jersey. The plant will provide electric power and heat for use by several campus buildings. About 90 percent of the daily power requirements for OCC's Instructional Building, Lecture Hall, and Nursing Arts Building and 20 percent of heating needs will be met as well as the power needs of the Administration Building, Library, and the Robert J. Novins Planetarium. Herbert T. Nock, of FuelCell Energy said, "By locating the fuel cell next to the building, OCC is able to maximize the efficiency of the power plant by using both the electric power and the heat energy output. The clean and quiet nature of the fuel cell makes it possible to put the power plant at the customer's site." The New Jersey Clean Energy Program provided partial funding for the project. (Source: *PRNewswire,* April 22, 2004)

SEATTLE REGION

The 123-unit, 15-story Henry, an upscale residential tower in Portland, Oregon, is the newest addition to the city's 44 green buildings totaling four million square feet. The Henry features a rooftop chiller and pressed straw cabinets without toxic resins. As the green building boom progresses, companies find in 50- to 100-year life cycle of a green building, costly upgrades such as solar arrays and super-efficient mechanical systems pay for themselves many times over. (Source: *USA Today,* March 30, 2004)

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MEETINGS, CONFERENCES, AND TRAINING WORKSHOPS

- Refer to Appendix B – New Technologies
- Refer to Appendix C – Calendar of Upcoming Events.

MULTIPLE REGIONS

The Association of Energy Engineers will offer four online seminars: Fundamentals of Lighting Efficiency on May 6, Small-Scale Cogeneration on May 24-27, Performance Contracting on June 1, and Strategic Energy Planning on June 9. The Fundamentals of Lighting Efficiency seminar is designed for energy and facility managers, providing the tools to effectively understand the benefits from the latest generation of direct digital controls for building automation and hardware and software components. The seminar also discusses monitoring the results of energy investments and identifying cost cutting opportunities. The seminar on Small-Scale Cogeneration provides an overview on available

cogeneration technologies, economic and supply security aspects of generating power, and implementation of cogeneration projects. The Performance Contracting seminar covers the basics on performance contracting, risk management guidelines, ESCO selection procedures, measurement and verification steps, investment grade audit delivery facts, key contract components, and negotiation strategies. The Strategic Energy Planning seminar covers techniques, methodologies, performance score cards, energy baseline maps, and step-by-step action plans to monitor and develop a strategic energy plan. For more information, go to www.aeecenter.org/training or www.aeecenter.org/realtime.

ATLANTA REGION

The Pacific Northwest National Laboratory is sponsoring the Eighth Annual Hydrogen and Fuel Cells Summit in Coral Gables, Florida, on June 15-17. The conference will provide information about developing performance, installation, and operation standards for hydrogen and fuel cell technologies. For more information, visit www.pnl.gov/fuelcells/summits/current_summit.stm.

BOSTON REGION

The Department of Energy's Federal Energy Management Program is sponsoring a training course titled, Operations and Maintenance Management in Newport, Rhode Island, on May 18-19. The course will provide an overview of operations and maintenance (O&M), practices, management programs, technologies, and saving strategies for O&M. The course will also cover four major O&M procedures, including reactive, preventive, predictive, and reliability centered practices. For more information, visit www.eere.energy.gov/femp/newsevents/fullevent.cfm?calendarID=167&c=1.

The Department of Energy's Federal Energy Management Program is sponsoring a workshop titled, Utility Energy Services Contracting Projects Workshop in Cambridge, Massachusetts, on June 8-9. The workshop covers contracting options and services at local utility companies and strategies on engineering, financing, and installing cost-effective energy and water savings projects. For more information, visit www.eere.energy.gov/femp/newsevents/fullevent.cfm?calendarID=167&c=1.

The Department of Energy's Federal Energy Management Program is sponsoring a workshop titled, Life-Cycle Costing in Boston, Massachusetts, on July 14-15. The workshop will cover the following topics: applying life-cycle costing to funded Energy Savings Performance Contracts projects, comparing capital investment and outsourcing, and choosing between optional and mandatory replacement of functional systems. For more information, visit www.eere.energy.gov/femp/services/training_lifecycle2.cfm.

The U.S. Department of Energy in concert with the Department of Defense and the General Services Administration are sponsoring *Energy 2004* in Rochester, New York, on August 8-11. *Energy 2004* offers a myriad of networking opportunities with energy professionals from throughout the U.S. and provides information on the latest strategies and products for saving energy in buildings. One of the many features of **the conference will include a series of track sessions covering eight topical areas**: Acquisition: Contracting Rules; Alternative Financing: Making Projects Happen; Developing World Class Operations and Maintenance; Energy Security: Supply, Technologies, and Strategies; New Technologies: Successful Applications for Buildings and Vehicles: Policy, Planning, and Leadership; Renewables: Real, Relevant, and Affordable; and Sustainability: From Dreams to Operations. For a description on each track, visit www.energy2004.ee.doe.gov/tech.htm .

CHICAGO REGION

The Department of Energy's Federal Energy Management Program is sponsoring a training course titled, Operations and Maintenance Management in Madison, Wisconsin, on June 16-17. The course will provide an overview of operations and maintenance (O&M), practices, management programs, technologies, and saving strategies for O&M. The course will also cover four major O&M

procedures including reactive, preventive, predictive, and reliability centered practices. For more information, visit www.eere.energy.gov/femp/newsevents/fullevent.cfm?calendarID=168&c=1.

The Department of Energy and the Environmental Protection Agency are holding the "Labs21 High Performance, Low Energy Design Workshop" in Saint Louis, Missouri, on October 4. The workshop series covers strategies for designing and constructing sustainable laboratories in new and existing facilities including energy efficient design processes. For more information, visit www.labs21century.gov/training/designcourse/schedule.htm.

DENVER REGION

The Department of Energy's Federal Energy Management Program is sponsoring a training course titled, Hands-On Distributed Energy Resources Training in Albuquerque, New Mexico, on June 2-3 and September 15-16. The course covers an overview on distributed energy resources, technologies, applications, case studies, and hands-on training. For more information, visit www.eere.energy.gov/femp/services/training_hands_on_der.cfm.

PHILADELPHIA REGION

The Department of Energy's Federal Energy Management Program is sponsoring a training course titled, Evolving Energy Markets in Washington, D.C., on June 23. The course covers the utility industry, utility restructuring, energy management practices, the General Services Administration's role in energy procurement, and options for purchasing renewable power. For more information, visit www.eere.energy.gov/femp/services/training_evolving_markets.cfm.

The Department of Energy's Federal Energy Management Program is holding a workshop titled, Introduction to ESPC in Washington, D.C., on July 20-21. The workshop will cover strategies to implement energy conservation projects through Super Energy Savings Performance Contracting. For more information, visit www.eere.energy.gov/femp/services/training_super_espc.cfm.

The Department of Energy's Federal Energy Management Program is holding a course titled, Measurement & Verification (M&V) for Super ESPC Projects in Washington, D.C. on July 21. The course will cover five topics: why you need M&V, meeting Super ESPC M&V requirements, protecting your investments, developing a plan that meets your needs, and evaluating plans and reports. For more information, visit www.eere.energy.gov/femp/newsevents/fullevent.cfm?calendarID=207&c=1.

SEATTLE REGION

The Department of Energy's Federal Energy Management Program is sponsoring a workshop titled, Securing Energy Savings Projects for Your Facility in Honolulu, Hawaii, on May 25-26. The workshop covers contracting options and services at local utility companies and strategies on engineering, financing, and installing cost-effective energy and water savings projects. For more information, visit www.eere.energy.gov/femp/services/training_uesc_projects.cfm.

Westart-CALSTART is sponsoring Alaska Clean Energy Symposium: Opportunities for Clean Energy and Technologies from and for Alaska in Anchorage, Alaska, on May 25-27. The symposium will cover existing and potential clean fuel sources, clean fuels production, and supporting infrastructure technologies with applications for potential commercial and military use. For more information, visit www.calstart.org/programs/alaska2004/alaska_agenda.php.

The Association of Energy Engineers is sponsoring the West Coast Energy Management Conference in Anaheim, California, on June 16-17. The conference will cover topics on the latest energy marketplace developments, promising new technologies, energy supply options, and innovative project implementation strategies. For more information, visit www.aeecenter.org/emc.

The Department of Energy and the Environmental Protection Agency are holding the "Labs21 High Performance, Low Energy Design Workshop" in Santa Barbara, California, on June 23. The workshop series covers strategies for designing and constructing sustainable laboratories in new and existing facilities including energy efficient design processes. For more information, visit www.labs21century.gov/training/designcourse/schedule.htm.

The International District Energy Association and Seattle Steam Company are holding the District Energy/CHP 2004 Annual Conference and Trade Show in Seattle, Washington, on June 27-30. The conference will focus on operations, innovation and business practices of the district energy industry. To register, visit www.districtenergy.org/calendar.htm.

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STUDIES, REPORTS, AND ANALYSES

ENERGY AND WATER CONSERVATION

***Distributed Energy Sector Review,* The Distributed Energy Financial Group (DEFG), April 2004**

DEFG has released its first annual review of the distributed energy sector. The report is a comprehensive look at distributed energy (DE). The financial drivers, performance, and investments in the sector are reviewed and recommendations are made. The *Distributed Energy Sector Review* is a PowerPoint presentation consisting of four main sections and two appendices covering an overview and key DE sector drivers; financial perspectives, a review of DE sector's financial performance, models, pertinent public policies, and individual company financials. For more information and to read the report, visit www.defgllc.com.

SOLAR AND RENEWABLE ENERGY

***Wind Energy Study2004,* Hamburg Meese, 2004**

The German Wind Energy Institute surveyed turbine manufacturers and project developers for market estimates to update *Wind Energy Study 2004*. The international wind industry is expected to grow to 150,000 MW of installed power by 2012, from the current level of 40,000 MW. The most important future markets are France, United Kingdom, Austria, Italy, and the United States.

***Putting Renewables to Work: How Many Jobs Can the Clean Energy Industry Generate?* Energy and Resources Group, University of California Berkley, April 13, 2004**

This report finds that a 20 percent renewable portfolio standard, including primarily biomass, would create 160,000 more jobs by 2020 than an energy portfolio depending on fossil fuels. The study looked at 13 surveys to find that further development of fossil fuels can decrease jobs while renewable energy options add jobs, not to mention increase energy security. To view the complete report visit: http://socrates.berkeley.edu/~rael/renewables.jobs.pdf.

MISCELLANEOUS

Improved USDA Management Would Help Agencies Comply with Farm Bill Purchasing Requirements, General Accounting Office, April 2004

The report was prepared in response to a request from the Ranking Minority Member of the Senate Committee on Agriculture, Nutrition, and Forestry. The report addresses the progress of Federal

agencies, particularly the Department of Agriculture, to purchase biobased products. Biobased products are composed of, in whole or part, biological products, renewable domestic agricultural materials or forestry materials. The authors also examined the need for additional actions to encourage agencies to purchase these products and the need for and cost of testing biobased products. To view the report, go to www.gao.gov and locate report number GAO-04-437.

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APPENDIX A
STATUS OF FY 2004 APPROPRIATIONS BILLS

HOUSE – APPROPRIATIONS

No hearings, mark ups, or votes of interest have been scheduled.

HOUSE – AUTHORIZATIONS/OVERSIGHT

No hearings, mark ups, or votes of interest have been scheduled.

SENATE – APPROPRIATIONS

No hearings, mark ups, or votes of interest have been scheduled.

SENATE – AUTHORIZATIONS/OVERSIGHT

Date/Committee	Chair	Hearing Title/Issues	Witnesses	Time/ Location
April 27 – Committee on Energy and Natural Resources	Pete Domenici (R/NM)	***Hearing –*** Oversight hearing on sustainable, low emission electricity generation (includes renewable energy, hydrogen, and nuclear R&D)	David Garman, DOE Acting Under Secretary and Assistant Secretary for Energy Efficiency and Renewable and representatives from MIT, Rice University, and CONSOL Energy	10:00 a.m. Room 366 Dirksen Office Building
Mary 6 – Committee on Agriculture, Forestry, and Nutrition ***(NEW)***	Thad Cochran (R/MS)	***Hearing –*** New opportunities for agriculture, focusing on biomass energy production	TBA	10:00 a.m. Room 106 Dirksen Office Building

CONFERENCE COMMITTEE NEGOTIATIONS/FLOOR VOTES

Date/Action	Issue/Bill	Time/Location
Week of April 26 – Conference Committee negotiations	*H.R. Con. Res. 393 and S. 95 – FY 2005 Budget Resolution*	TBA

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APPENDIX B – NEW TECHNOLOGIES

For informational purposes only. Listing does not imply endorsement.

TECHNOLOGY	MANUFACTURER	MANUFACTURERS CLAIM	CONTACT
HVAC			
Anti-Mold Enviro-Stac®	Environmental Technologies	Mitigates mold growth in hotel and residential spaces. Deep-loading synthetic media filtration bypasses air from airborne contaminants.	www.enviro-tec.com
TH 132-A-024T	Aube Technologies Inc.	ENERGY STAR® rated thermostat allows home occupants to program the heat requirements through four settings wake up, leave home, back home, and night.	www.aubetech.com
WaterWizard Water Heater	AERCO International	Offers ± 4 degrees Fahrenheit temperature control, low maintenance, and longevity. Delivers 93-99% efficiency.	www.aerco.com
Tuf-Skin® and Tuf-Skin II®	Pacor Inc.	Fiberglass insulation HVAC equipment liners provide thermal acoustical control in air conditioning and heating equipment. Recommended for operating procedures of up to 250 degrees F.	www.pacorinc.com
AIRS™ 50	Earthship USA Inc.	First commercially available air cycle refrigeration system. Contains no refrigerants and uses air as low as -76 degrees Fahrenheit.	www.earthship.co.jp

TECHNOLOGY	MANUFACTURER	MANUFACTURERS CLAIM	CONTACT
Lighting			
Hard Hat Downlight	Brownlee Lighting	Constructed of polycarbonate composite materials and equipped with electronic compact fluorescent ballasts. Corrosion resistant, light weight, strong, and compact. Used for indoor and outdoor applications in saltwater atmospheres.	www.brownlee.com
Supersaver® Xtreme System	Sylvania	Provides long lamp life of 24,000 hours on programmed rapid start ballasts. Results in 43% energy savings using fluorescent T12 lamp and T8 Supersaver® Xtreme System and 12% energy savings when using Supersaver® T8 lamp.	www.sylvania.com
FluorLyter	Exceline	New series of high-bay and low-bay luminaries provides high-performance, energy-efficient, pedestrian-level lighting across a range of commercial and light industrial interior spaces.	www.exceline.com
Alko	Lighting Systems	Recessed wall mounted night lights provide low level illumination and are designed for institutional spaces. Provide maintenance-free performance for a number of years.	www.ltgsys.com
PNL-1145 Series LED Lamps	LEDtronics	Energy-efficient and long-lived illuminators. Lamp can be front-mounted or rear-mounted in panels up to 2.2 inches (55.88 mm) thick. Suitable replacement for maintenance-intensive and critical-process applications.	www.ledtronics.com
ENERGY MANAGEMENT TOOLS			
Surveyor Network Energy Manager	Verdiem	Software automates energy-efficient practices, adds control and flexibility to traditional power management, and reduces operating costs in personal computer networks. Organization with 5,000 computers can cut more than $400,000 in energy expense through a period of over four years.	www.ezconserve.com
Panorama Version 8.0	Teletrol	Newest version of the Panorama graphical user interface software from Teletrol offers web-enabled process to monitor and control building automation systems. Allows improved point trending, and remote	www.teletrol.com

TECHNOLOGY	MANUFACTURER	MANUFACTURERS CLAIM	CONTACT
		notification of alarms and events.	
HotelStat-RFS	PSG Controls, Inc.	Key card system places HVAC, lights, appliances and other energy systems in an occupied/unoccupied mode through wireless communication. Upon entering a hotel room the key card activates radio frequency outlets placing the room in occupied mode and activating the lights, TV, etc. Upon leaving the room, the key card system is removed and the outlets are turned off placing the room in unoccupied mode.	www.psgcontrols.com
MISCELLANEOUS			
Written-Pole Motor-Generator	Precise Power	Supplies continuous clean power to sensitive electrical loads in commercial and industrial installations.	www.precisepwr.com
Model 2024 Vibration Switch	Balmac Inc.	Works directly with building automation control systems and variable-frequency drives to monitor fans, motors, and pumps. Switch trips an alarm when vibration limit is exceeded.	www.balmacinc.com

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APPENDIX C
MEETINGS, CONFERENCES, AND OTHER EVENTS

NOTE: New events are highlighted in blue.
DOE-sponsored events are highlighted in green.

FEMP Training Calendar: www.eere.energy.gov/femp/newsevents/training.cfm

GENERAL ANNOUNCEMENTS

DATE	EVENT	SPONSOR
May 6, 2004	**Fundamentals of Lighting Efficiency Teleconferencing Session**	**Association of Energy Engineers**
May 13, 2004	Microturbines Teleconferencing Session	Association of Energy Engineers
May 14, 2004	Fuel Cells Teleconferencing Session	Association of Energy Engineers
May 24, 2004	**Small-Scale Cogeneration Seminar**	**Association of Energy Engineers**
May 25, 2004	**Small-Scale Cogeneration Seminar**	**Association of Energy Engineers**
May 26, 2004	**Small-Scale Cogeneration Seminar**	**Association of Energy Engineers**
May 27, 2004	**Small-Scale Cogeneration Seminar**	**Association of Energy Engineers**
June 1, 2004	**Performance Contracting 2004 Teleconferencing Session**	**Association of Energy Engineers**
June 9, 2004	**Strategic Energy Planning Online Session**	**Association of Energy Engineers**

ATLANTA REGION

DATE	EVENT	SPONSOR
May 2-5, 2004	**10th Annual National Clean Cities Conference Fort Lauderdale, Florida**	**Department of Energy**
June 15-17, 2004	**Hydrogen and Fuel Cells Summit VIII Coral Gables, Florida**	**Pacific Northwest National Laboratory**
September 16, 2004	Anatomy of a Green Lease Workshop Atlanta, GA	The Corporate Realty, Design, & Management Institute

BOSTON REGION

DATE	EVENT	SPONSOR
May 18-19, 2004	Operations and Maintenance Management Newport, RI	Department of Energy's Federal Energy Management Program
June 8-9, 2004	Utility Energy Services Contracting Projects Workshop Cambridge, MA	Department of Energy's Federal Energy Management Program
July 14-15, 2004	Life-Cycle Costing (Combined: Basic & Project Oriented) Boston, MA	Department of Energy's Federal Energy Management Program
July 20-22, 2004	FedFleet 2004: The Road to the Future is Now New York, NY	General Services Administration and the Federal Fleet Policy Council
August 8-11, 2004	Energy 2004	Department of Energy, Department of Defense, and General Services Administration
September 9, 2004	Anatomy of a Green Lease Workshop Boston, MA	The Corporate Realty, Design, & Management Institute

CHICAGO REGION

DATE	EVENT	SPONSOR
April 30, 2004	Anatomy of a Green Lease Workshop Cleveland, OH	The Corporate Realty, Design, & Management Institute
May 11-14, 2004	Energy Smart America 2004: Tools and Solutions for States and Communities Minneapolis, MN	Department of Energy
June 16-17, 2004	Operations and Maintenance Management Madison, WI	Department of Energy's Federal Energy Management Program
July 28, 2004	Anatomy of a Green Lease Workshop Minneapolis, MN	The Corporate Realty, Design, & Management Institute
October 4, 2004	Labs21 High Performance, Low-Energy Design Course St. Louis, MO	Department of Energy and the Environmental Protection Agency

DENVER REGION

DATE	EVENT	SPONSOR
June 2, 2004	Hands-On Distributed Energy Resources Training Albuquerque, NM	Department of Energy's Federal Energy Management Program
June 25-27, 2004	7th Annual Colorado Renewable Energy Society Renewable Energy Conference Denver, CO	Colorado Renewable Energy Society

DATE	EVENT	SPONSOR
July 26, 2004	Anatomy of a Green Lease Workshop Kansas City, MO	The Corporate Realty, Design, & Management Institute
August 28-September 3, 2004	**World Renewable Energy Congress VIII and Expo Denver, CO**	**Department of Energy, American Council on Renewable Energy, Xcel Energy, World Renewable Energy Network and others**
September 15-16, 2004	**Hands-On Distributed Energy Resources Training Albuquerque, NM**	**Department of Energy's Federal Energy Management Program**
September 22-24, 2004	27th World Energy Engineering Congress & High Performance Facilities Expo Austin, Texas	Association of Energy Engineers and Austin Energy
October 5, 2004	Anatomy of a Green Lease Workshop Houston, TX	The Corporate Realty, Design, & Management Institute
October 27, 2004	Anatomy of a Green Lease Workshop Denver, CO	The Corporate Realty, Design, & Management Institute

PHILADELPHIA REGION

DATE	EVENT	SPONSOR
May 10-12, 2004	5th Annual USCHPA Policy Day Conference Washington, D.C.	U.S. Combined Heat and Power Association (U.S. CHPA)
June 23, 2004	**Evolving Energy Markets Washington, D.C.**	**Department of Energy's Federal Energy Management Program**
June 27-30, 2004	**2004 Future Car Congress Washington, D.C.**	**Department of Energy and United States Council for Automotive Research**
July 7-8	**Implementing Renewable Energy Projects Annapolis, MD**	**Department of Energy's Federal Energy Management Program**
July 20-21	**Introduction to ESPC Washington, D.C.**	**Department of Energy's Federal Energy Management Program**
July 21, 2004	**Measurement & Verification for Super ESPC Projects**	**Department of Energy's Federal Energy Management Program**
September 13, 2004	Anatomy of a Green Lease Workshop Washington, D.C.	The Corporate Realty, Design, & Management Institute
September 15, 2004	Anatomy of a Green Lease Workshop Washington, D.C.	The Corporate Realty, Design, & Management Institute

SEATTLE REGION

DATE	EVENT	SPONSOR
May 4-5, 2004	**Introduction to ESPC Phoenix, AZ**	**Department of Energy's Federal Energy Management Program**
May 5, 2004	**Measurement and Verification for Super ESPC Projects Phoenix, AZ**	**Department of Energy's Federal Energy Management Program**
May 6, 2004	**Labs21 High Performance, Low-Energy Design Course Portland, OR**	**Department of Energy and the Environmental Protection Agency**
May 18-19, 2004	**Implementing Renewable Energy Projects San Francisco, CA**	**Department of Energy and the Environmental Protection Agency**
May 25, 2004	**Alaska Federal Renewable Energy Forum Anchorage, AK**	**WestStart - CALSTART**
May 25-26, 2004	**Securing Energy Savings Projects for Your Facility Honolulu, HI**	**Department of Energy's Federal Energy Management Program**
June 3-4, 2004	Greening Rooftops for Sustainable Communities Portland, OR	City of Portland, Oregon and Green Roofs for Healthy Cities
June 3, 2004	Anatomy of a Green Lease Workshop Seattle, WA	The Corporate Realty, Design, & Management Institute
June 23, 2004	**Labs21 High Performance, Low-Energy Design Course Santa Barbara, CA**	**Department of Energy and the Environmental Protection Agency**
June 16-17, 2004	**West Coast Energy Management Conference Anaheim, CA**	**Association of Energy Engineers**
June 27-30, 2004	**District Energy/CHP 2004: IDEA's 95th Annual Conference and Trade Show Seattle, WA**	**International District Energy Association & Seattle Steam Company**
July 10-14, 2004	**SOLAR 2004 Portland, OR**	**Department of Energy, Energy Trust of Oregon, and Eugene Water and Electric Board**
October 7, 2004	Anatomy of a Green Lease Workshop Phoenix, AZ	The Corporate Realty, Design, & Management Institute
October 11, 2004	Anatomy of a Green Lease Workshop San Francisco, CA	The Corporate Realty, Design, & Management Institute
October 14, 2004	Anatomy of a Green Lease Workshop Los Angeles, CA	The Corporate Realty, Design, & Management Institute

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